

SES-STA-20160301-00188

IB2016000565

Intelsat License LLC

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Request for Extension of Special Temporary Authority for 2.4m Ka-band Earth Station at Mountainside, Maryland

1. Applicant

|                   |   |                      |                             |
|-------------------|---|----------------------|-----------------------------|
| <b>Name:</b>      | Intelsat License LLC                              | <b>Phone Number:</b> | 703-559-7848                |
| <b>DBA Name:</b>  |   | <b>Fax Number:</b>   | 703-559-8539                |
| <b>Street:</b>    | c/o Intelsat Corporation<br>7900 Tysons One Place | <b>E-Mail:</b>       | susan.crandall@intelsat.com |
| <b>City:</b>      | McLean  | <b>State:</b>        | VA                          |
| <b>Country:</b>   | USA   | <b>Zipcode:</b>      | 22102 -5972                 |
| <b>Attention:</b> | Susan H. Crandall                                 |                      |                             |



File # SES-STA-2016-0301-00188  
 Call Sign 25-4-112 Grant Date 25-4-112  
 (or other identifier)  
 Term Dates 2-8-16 To: 4-7-16  
 From: 2-8-16  
 Approved: [Signature]

Application: Intelsat License LLC  
File No.: SES-STA-20160301-00188  
Call Sign: None  
Special Temporary Authority

Intelsat License, LLC (Intelsat) is granted a special temporary authority extension from SES-STA-20151218-00953, under the following conditions, for 30 days, beginning March 8, 2016, to operate a 2.4 meter antenna located at its Hagerstown, Maryland teleport to provide in-orbit testing ("IOT") of the Intelsat 29e satellite (S2913) at 49.7° W.L. orbital location in the 29.50-30 GHz (Earth-to-space) and 19.70- 20.20 GHz (space-to-Earth) frequency bands.

1. Intelsat must coordinate all of its Ka-band downlink operations with Federal fixed satellite systems, both geostationary and non-geostationary, in accordance with footnote US334 to the Table of Frequency Allocations, 47 C.F.R. §2.106. Absent a coordination agreement pursuant to footnote US334, Intelsat shall operate its Ka-band downlinks on a non-harmful interference basis with regards to Federal systems in the 18.3-18.8 GHz and 19.7-20.2 GHz bands and must terminate its Ka-band downlink operations immediately in the event that such operations cause harmful interference into operating Federal systems. In addition, Intelsat must accept interference from such systems absent a coordinating agreement pursuant to footnote US334.
2. All operations under this grant of STA shall be on an unprotected and non-harmful interference basis. Intelsat's shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
3. In the event of any harmful interference under this grant of STA, Intelsat must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Intelsat's applications.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely 'at Intelsat's risk.
6. This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



File # SES-STA-20160301-00188  
Call Sign \_\_\_\_\_ Grant Date 3-4-16  
(or other identifier)  
Term Dates  
From: 3-8-16 To: 4-7-16  
Approved: Paul E. Fisher

**2. Contact**

**Name:** Cynthia J. Grady      **Phone Number:** 703-559-6949  
**Company:** Intelsat Corporation      **Fax Number:** 703-559-8539  
**Street:** 7900 Tysons One Place      **E-Mail:** cynthia.grady@intelsat.com  
**City:** McLean      **State:** VA  
**Country:** USA      **Zipcode:** 22102 -5972  
**Attention:**      **Relationship:** Legal Counsel

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity     Noncommercial educational licensee  
 Other (please explain):

4b. Fee Classification    CGX - Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant       Change Station Location       Other.

6. Requested Use Prior Date

7. City Hagerstown

8. Latitude  
(dd mm ss.s h)    39    35    53.35    N

|  |   |
|--|---|
| 9. State MD  | 10. Longitude<br>(dd mm ss.s h) 77 45 34.23 W                           |
| 11. Please supply any need attachments.<br>Attachment 1: STA Request Attachment 2: Attachment 3:   |   |
| 12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)<br><div style="border: 1px solid black; padding: 5px;"> <p>Intelsat License LLC herein requests an additional thirty days, beginning March 7, 2016, of the Special Temporary Authority previously granted Intelsat to utilize a 2.4 meter Ka-band antenna located at its Hagerstown, Maryland teleport to provide in-orbit testing services for the Intelsat 29e satellite (S2913) at 49.7 W.L. Intelsat 29e was launched on</p> </div> |   |
| 13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. <div style="text-align: right;"> <input checked="" type="radio"/> Yes      <input type="radio"/> No </div>                            |   |
| 14. Name of Person Signing<br>Cynthia J. Grady   | 15. Title of Person Signing<br>Regulatory Counsel, Intelsat Corporation |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT<br>(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION<br>(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).  |   |

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**THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.**

## **12. Description**

Intelsat License LLC herein requests an additional thirty days, beginning March 7, 2016, of the Special Temporary Authority previously granted Intelsat to utilize a 2.4 meter Ka-band antenna located at its Hagerstown, Maryland teleport to provide in-orbit testing services for the Intelsat 29e satellite (S2913) at 49.7 W.L. Intelsat 29e was launched on January 27, 2016.



**INTELSAT**

*Envision. Connect. Transform.*

March 1, 2016

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12<sup>th</sup> Street, S.W.  
Washington, D.C. 20554

Re: Request for Extension of Special Temporary Authority to Operate a 2.4 meter  
Ka-band Antenna at Intelsat's Hagerstown, Maryland Teleport

Dear Ms. Dortch:

Intelsat License LLC ("Intelsat") herein requests an additional thirty days, beginning March 7, 2016, of the Special Temporary Authority ("STA")<sup>1</sup> previously granted Intelsat to utilize a 2.4 meter Ka-band antenna located at its Hagerstown, Maryland teleport to provide in-orbit testing ("IOT") services for the Intelsat 29e satellite (S2913) at 49.7° W.L. Intelsat 29e was launched on January 27, 2016.

Upon launch and subject to receipt of FCC approval, Intelsat 29e will be located temporarily at 49.7° W.L. for IOT.<sup>2</sup> The satellite's permanent location will ultimately be 50.0° W.L.<sup>3</sup> The proposed IOT operations will be performed using the following frequencies: 29.50 – 30 GHz (Earth-to-space) and 19.70 – 20.20 GHz (space-to-Earth).

The maximum uplink EIRP per carrier will be 70 dBW. The majority of the IOT testing will be performed using an unmodulated carrier with an EIRP of 45 to 50 dBW. The Gain Transfer test, which will have a duration of 2 minutes after initial calibration, will require an EIRP of 70dBW at 29750 MHz, with a corresponding downlink EIRP of 39.9dBW at 19950 MHz. Additional testing with a 40 MHz carrier will require a modulated carrier with an EIRP of 70 dBW spread across a 40 MHz bandwidth.

The proposed operations will be coordinated with all operators of satellites that use the same frequency bands and are potentially affected by these operations at the IOT location. Specifically, Intelsat is has completed coordination of the proposed transmissions with Inmarsat-5F2 at 55° W.L. Additionally, Intelsat understands that NTIA coordination is required for Government systems in the band 17.7-20.2 GHz. In the extremely unlikely event that harmful interference should occur, Intelsat will take all reasonable steps to eliminate the interference.

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$195.00 filing fee, and this supporting letter electronically via the International Bureau's Filing System ("IBFS").

<sup>2</sup> Request for Special Temporary Authority to Conduct In-Orbit Testing of the Intelsat 29e Satellite, File No. SAT-STA-20151211-00082 (filed Dec. 11, 2015).

<sup>3</sup> See *Policy Branch Information: Actions Taken*, Report No. SAT-01086, File No. SAT-LOA-20130722-0097 (May 22, 2015) (Public Notice).

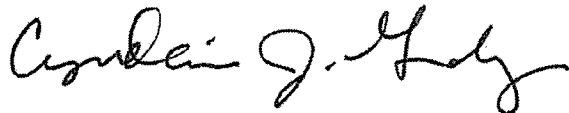
Ms. Marlene H. Dortch  
March 1, 2016  
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In further support of this request, Intelsat provides three exhibits, which contain the relevant technical parameters, antenna patterns, and a radiation hazard report.

The provision of IOT services to the Intelsat 29e satellite at 49.7° W.L. is a critical step in ensuring that the satellite will be fully operational at 50.0° W.L. This, in turn, will ensure continuity of service to customers at the 50.0° W.L. location, and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Cynthia J. Grady". The signature is fluid and cursive, with a large initial "C" and a long, sweeping tail.

Cynthia J. Grady  
Regulatory Counsel  
Intelsat Corporation

Cc: Paul Blais